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a. If letter or memo:

To: C. Wayne Bills, Director Nuclear
Technology Division
From: Donald I. Walker, Director Health
Services Laboratory
Subject: CONTROLLED RELEASES OF
RADIOACTIVITY DURING CY-1970

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5. Summary (2-3 lines indicating the major subject(s) of the document):

This document lists the five Experimental Cloud Exposure Study (EXCES) releases and the three Controlled Environmental Release Test (CERT) experiments that were conducted during calendar year 1970.

6. Name and telephone number of person completing form: Don C. Bradley (208) 525-0203	7. Organization: Lockheed Idaho Technologies Co.	8. Date: May 31, 1995
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HUMAN RADIATION EXPERIMENTS

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Controlled Releases of
FOLDER Radioactivity During CY-1970

MAR 12 1971

C. Wayne Bills, Director
Nuclear Technology Division

CONTROLLED RELEASES OF RADIOACTIVITY DURING CY-1970

The controlled releases of radioactivity to the atmosphere made by the Laboratory for research purposes during CY-1970 are listed below.

- A. Five Experimental Cloud Exposure Study (EXCES) releases were conducted as part of a program to measure exposures at ground level resulting from the passage of a radioactive cloud. Sodium-24 was the radionuclide released in all five tests.
1. 25 March 1970: 51 Ci
 2. 1 April 1970: 75 Ci
 3. 7 April 1970: 6.6 Ci
 4. 9 April 1970: 103 Ci
 5. 24 April 1970: 120 Ci
- B. Three Controlled Environmental Release Test (CERT) experiments were performed which entailed releases of radionuclides to the atmosphere. One of these was a laboratory test following which Kr-85 was discharged through a CF-690 hood exhaust stack.
1. 20 January 1970: 2 Ci Kr-85
 2. 22 September 1970: 0.10 Ci K-42
 3. 21 October 1970: 0.30 Ci K-42

No radioactivity was released to surface or underground waters for research purposes during CY-1970. There were no releases made specifically for or by personnel of the U. S. Geological Survey or the National Oceanic and Atmospheric Administration.

Original Signed By
Donald I. Walker

Donald I. Walker, Director
Health Services Laboratory

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